

URINALYSIS LAB

Students record results and interpret their findings in the context of additional clinical history.

Pre-lab Calculations

For the first set of trials, prepare the test tubes, aliquot the urine samples, and run the tests as follows.

Protein Test

1. Label 3 test tubes "Control", "U1", "U2", and "U3".
2. Pour 5 drops of each urine sample into the corresponding test tubes. (Use a clean pipette each time.)
3. Add 10 drops of **Biuret reagent** to each tube and gently swirl for 1-2 seconds.
4. Record the results of each test tube. (See below.)

Control	_____
Protein (U1)	_____
Protein (U2)	_____
Protein (U3)	_____

Glucose Test

1. Label 3 test tubes "Control", "U1", "U2", and "U3".
2. Pour 5 drops of each urine sample into the corresponding test tubes. (Use a clean pipette each time.)
3. Add 10 drops of **Benedict's**
4. Record the results of each

Urinalysis Lab

General Instructions

1. Wear your lab safety goggles at all times in period.
2. Wash your hands before and after the lab.
3. Follow all safety rules.
4. Dispose of your urine samples properly (control, patient 1, patient 2, and patient 3).
5. Run each of the three tests and record your results.

Setup, Controls, U1, and Urine

Perform the following tests on the urine in the cups.

Color

Look at the color of each urine sample and record your observations in the table on your worksheet. Record the results as pale yellow, yellow, orange, olive, or brown/black.

Clarity

Look at the urine sample for evidence of cloudiness. Record the result as clear, slightly clear, cloudy, or murky.

pH

1. Dip the end of the pH strip in the urine for 1-2 seconds.
2. Determine the pH by matching the color of the strip to that on the pH strip package.
3. Record your results.

Biuret Test

1. Dip the end of the glucose strip in the urine.
2. Dip the strip in the 20 seconds.
3. Determine the glucose level by matching the color of the strip to that on the glucose strip package.
4. Record your results.

Continue on next page.

Interpret U1 and U2

1. What is the specific reagent used to indicate the amount of protein in the urinalysis?
2. Patient 1 reports chronic back pain and pain in urination. What disease might you be concerned about?
3. What test result do you have to confirm this suspicion?

Questions

1. What is the function of a urinalysis test? (Answer in complete sentences, 2-3 lines)

Interpret U3 and U4

1. What is the function of a urinalysis test? (Answer in complete sentences, 2-3 lines)
2. Patient 2 reports chronic back pain and pain in urination. What disease might you be concerned about?
3. What test result do you have to confirm this suspicion?

Interpret U5 and U6

1. What is the function of a urinalysis test? (Answer in complete sentences, 2-3 lines)
2. Patient 3 reports chronic back pain and pain in urination. What disease might you be concerned about?
3. What test result do you have to confirm this suspicion?

Name: _____	Date: _____	Period: _____		
Urinalysis Lab (25 pts)				
Observations				
1. Patient 1 reports chronic back pain and pain in urination.				
Interpretations				
1. Patient 1 reports chronic back pain and pain in urination.				
2. Patient 2 reports chronic back pain and pain in urination.				
3. Patient 3 reports chronic back pain and pain in urination.				
Test Results (25 pts)				
	Control	Patient 1	Patient 2	Patient 3
Color				
Clarity				
pH				
Glucose				
Protein				
Ketones				

Continue on next page.

Instructions guide students step-by-step through the lab.

Urinalysis Lab Teacher Guide

Jill C. Cash, Cheryl A. Glass



Urinalysis Lab Teacher Guide:

High School Biology: *The laboratory (Teachers' guide)* Biological Sciences Curriculum Study, 1961
Education ,1994-04 *The Practitioners Guide in Urinalysis* Clifford Mitchell, 1882
Resources in Health Occupations Education Instructional Materials Ohio State University. Center for Vocational and Technical Education, 1972
Family Practice Guidelines, Fifth Edition Jill C. Cash, Cheryl A. Glass, Jenny Mullen, 2020-05-29 This bible of family practice for primary care clinicians and students provides current national practice guidelines for professional standards of care across the life span Concise and clearly organized this resource features detailed step by step instructions for physical examinations and diagnostic testing in the outpatient setting information on health promotion care guidelines dietary information information on culturally responsive care patient resources and abundant patient education handouts Now in color with abundant images and illustrations this fifth edition features thoroughly updated guidelines and recommendations to reflect latest in practice as well as many new guidelines Each of the diagnoses includes definition incidence pathogenesis predisposing factors common complaints signs symptoms subjective data physical exam and diagnostic tests differential diagnosis and a care plan Key Features Presents information for disorders in consistent format for ease of use Highlights key considerations with Practice Pointers Provides individual care points for pediatric pregnant and geriatric patients Includes 138 printable Patient Teaching Guides Offers 18 procedure guidelines and routine health maintenance guidelines Features appendices that provide guidelines on normal lab values special diets Tanner s Sexual Maturity Stages and teeth
Family Practice Guidelines, Fourth Edition Jill C. Cash, Cheryl A. Glass, 2017-01-13 This bible of family practice for primary care students and clinicians provides current national practice guidelines for professional standards of care across the life span Concise and clearly organized the resource features detailed step by step instructions for physical examinations and diagnostic testing in the outpatient setting information on health promotion care guidelines dietary information information on culturally responsive care patient resources and abundant patient education handouts This fourth edition is updated to include new evidence based guidelines for rheumatology public health featuring updated information on substance abuse violence obesity homelessness and lesbian health the sports physical exam and interventions endocrinology new Centers for Disease Control and Prevention CDC recommendations for health maintenance posttraumatic stress disorder PTSD assessment and management restless legs syndrome sexual dysfunction treatment and psychiatric disorders Several new and updated Patient Teaching Guides with printable education points add to the book s outstanding utility as a thorough and reliable clinical resource Each of the 268 diagnoses includes definition incidence pathogenesis predisposing factors common complaints signs symptoms subjective data physical exam and diagnostic tests differential diagnosis and a care plan New to the Fourth Edition New and updated guidelines for Rheumatology polymyalgia rheumatica Sjogren s syndrome psoriatic arthropathy pseudogout calcium pyrophosphate dihydrate ankylosing spondylitis reactive arthritis Raynaud s syndrome Public Health

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a patient's drug regimen For quick and easy access to information practice guidelines are organized primarily by body system disorders are listed alphabetically within each body system and all disorders are presented in a consistent format With an emphasis on history taking the physical exam and key features of the aging population each of the more than 240 disorder guidelines include definition incidence pathogenesis predisposing factors common complaints other signs and symptoms subjective data physical exam diagnostic tests differential diagnoses plan of care health promotion follow up guidelines and tips for consultation referral Particularly helpful features include Practice Pointers highlighting crucial information for a disorder and bold faced Alerts Key patient teaching points are presented at the end of each guideline Also included are 18 procedures commonly used within office or clinic settings and 140 Patient Teaching Guides that are available digitally New to the Second Edition 27 completely new entries New section on geriatric syndromes Polypharmacy alerts are incorporated throughout BEERS list of medications is highlighted for each disorder Updated guidelines for various screenings Medicare Coverage and Eligibility Screening U S Preventative Services Task Force recommendations on colonoscopy screening mammogram guidelines pap smears and pelvic examinations Deprescribing Algorithms ASCCP Algorithms Key Features Focuses specifically on adult and older adult populations Presented in easy to read outline format for quick access to information Delivers consistent presentation of more than 240 disorders by body system Reviews 17 commonly used procedures step by step Provides Practice Pointers to indicate important care points Offers digital access to more than 140 extensive Patient Teaching Guides to customize and print *Carolina Science and Math Carolina Biological Supply Company, 2003*

Study Guide to Accompany Drug Therapy in Nursing Diane S. Aschenbrenner, Samantha J. Venable, 2005 The perfect companion to Drug Therapy in Nursing Second Edition this invaluable study partner delivers guidance on individual patient management from a nurse as caregiver perspective helping you build essential knowledge and develop sound practice skills Knowledge building features include Top Ten Things to Know lists key terms multiple choice questions case studies and critical thinking challenges A Just the Facts feature helps deepen your understanding of essential drugs their actions indications contraindications and cautions A Patients Please feature helps you put the needs of the patient first with facts on core patient variables

Adult-Gerontology Practice Guidelines Jill C. Cash, 2023-02-13 Praise for the First Edition Because of the way it is organized this book meets the needs of both novice and experienced advance practice nurses Each chapter defines the problem how often it occurs and what leads to the problem To aid in assessment the book includes the physical examination landmarks as well as diagnostic tests that might be needed A plan of care is offered with several different alternatives for treatment and then notes what type of follow up is needed This would be a great resource for anyone working in the field of geriatrics Score 92 4 Stars Doody's Reviews This hands on text and clinical reference used by thousands of NP students and practitioners alike delivers national practice guidelines and professional standards of care to help clinicians deliver optimal primary care to adult and older adult patients The new third edition featuring the expert

input of two renowned Adult Gerontology practitioners updates all chapters teaching guides and illustrative charts and provides new charts to enhance readability Fresh content includes information on Sjogren s syndrome reactive arthritis elder abuse LGBTQ health concussion assessment joint pain bursitis and fractures peripheral neuropathy and perimenopause menopause The third edition also includes the updated Beers Criteria and covers COVID 19 treatment and vaccines Ideal for quick reference and as a study guide the text presents the most up to date guidelines in a consistent easy to read bulleted format Conveniently organized by body system it features detailed content on the physical examination and diagnostic testing information on health promotion guidelines of care dietary information common procedures national patient resources and popular Client Teaching Guides available in print and digital format that serve as both patient handouts and concise study tools Clinical points throughout the text highlight critical practice considerations The book with its great breadth and depth of information will be a welcome companion for NP students as they transition to professional practice and beyond New to the Third Edition Completely updated content including patient teaching guides and charts New charts added to enhance comprehension Coverage of Sjogren s syndrome reactive arthritis elder abuse LGBTQ health concussion assessment joint pain bursitis and fractures peripheral neuropathy and perimenopause menopause Latest guidelines on COVID 19 treatment and vaccines Updated Beers Criteria Current CDC recommendations on vaccines and cancer screening Key Features Offers consistent guidelines for over 275 disorders Presents practice guidelines organized by body system Lists disorders alphabetically for easy access Highlights key considerations for practice Delivers individual care considerations for adult geriatric and pregnant patients Provides Client Teaching Guides serving as both take home teaching supplements for patients and a concise study tool for students

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Guides serving as both patient take home teaching supplements and study guides for students Buffalo Medical Journal
,1904 **Buffalo Medical Journal and Monthly Review of Medical and Surgical Science** ,1904 **Teachers Guide**
in Health Education for Secondary Schools California. Bureau of Health Education, Physical Education, and
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